

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P18161-TPF		FOR FURTHER ACTION		See Form PCT/PEA/416
International application No. PCT/EP2003/010464		International filing date (day/month/year) 19.09.2003		Priority date (day/month/year) 19.09.2003
International Patent Classification (IPC) or national classification and IPC G06F17/60				
Applicant TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)				
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau a total of 6 sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>				
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>				
Date of submission of the demand 24.03.2005		Date of completion of this report 10.01.2006		
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Authorized Officer Daman, M Telephone No. +31 70 340-2763		



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2003/010464

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

Description, Pages

1-39 as originally filed

Claims, Numbers

1-26 filed with telefax on 04.11.2005

Drawings, Sheets

1/5-5/5 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2003/010464

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-26
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	1-26
Industrial applicability (IA)	Yes: Claims	1-26
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Cited documents

Reference is made to the following documents:

- D1: US-B1-6 581 161 (BYFORD DERRICK JOHN) 17 June 2003 (2003-06-17)
- D2: GB-A-2 365 606 (SOMETHING4 LTD) 20 February 2002 (2002-02-20)
- D3: GB-A-2 342 005 (RIVA LIMITED) 29 March 2000 (2000-03-29)
- D4: GB-A-2 387 501 (NICHOLAS ANDREW ; DABROWSKI ROBERT (GB)) 15 October 2003 (2003-10-15)

and newly cited:

- D5: JP-10292688 (KAGETANI KOUJI) 04 November 1998 (1998-11-04)

2. INVENTIVE STEP, ARTICLE 33(3) PCT

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1,3,13,18 and 26 does not involve an inventive step in the sense of Article 33(3) PCT.

The arguments put forward by the applicant in the fax dated 04.11.2005 have not been able to convince the Examining Division.

The methods for the delivery of a good (claim 1), obtaining a good (claim 3), remotely controlling a lock system (claim 13) and the remotely controllable lock system (claim 18) comprise mere business / logistic steps for the delivery or obtaining of goods using well-known technical components, e.g., GPS (for determining the location of the storage), wireless communicating devices, mobile telecommunication system for communication with a lock.

The independent claims are mere aggregates of such well-known technical components (see cited prior art) which interact in such a manner as to fulfill the business/logistic requirements of the claimed invention.

No surprising and/or unexpected technical effect derives from this combination of known technical features.

It is argued by the applicant that none of the cited prior art addresses the problem of unknown or changing location of the storage, however, such a changing location reflects a mere business constraint, which is addressed by the claimed invention using conventional and well-known location-determination and communication means. The skilled person faced with the problem of a changing location of the storage would readily and without inventive skill implement such location-determination (e.g. GPS) device (as is used for instance for the locating of containers in shipping) in combination with wireless communication equipment to communicate the new location.

Therefore, independent claims 1, 3, 13, 18 and 26 lack inventive step, Article 33(3) PCT.

3.2 DEPENDENT CLAIMS

Dependent claims 2, 4-12, 14-18, 19-25 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D3 and D5 and the corresponding passages cited in the search report.

Claims

1. Method for delivery of a good for a first entity (C100), wherein the following steps are executed:

- 5 - transporting the good by a second entity (D100) to a storage (S120) being locked by a lock system (S110),
 - determining the location of the storage (S120) and/or the lock system (S110),
 - communicating the determined location to the second entity (D100) in regular intervals or whenever the location of the storage (S120) and/or the lock system (S110) changes,
 - 10 - communicating a notification to the first entity (C100) for requesting an unlocking of the lock system (S110) for the second entity (D100),
 - sending a message via a mobile telecommunication system from the first entity (C100) to the lock system (S110) for unlocking the lock system (S110),
 - 15 - unlocking the lock system (S110) based on the received message,
 - opening the storage (S120), and
 - 20 - transferring the good from the second entity (D100) to the opened storage (S120).
2. The method according to claim 1, further comprising the step of
- 25 communicating an address of the storage (S120) or the lock system (S110) to the second entity (D100) during the transport.
3. Method for obtaining a good from a first entity (C100), wherein the following steps are executed:
- 30 - traveling by a second entity (D100) to a storage (S120) comprising the good, the storage (S120) being locked by a lock system (S110),

- determining the location of the storage (S120) and/or the lock system (S110),
 - communicating the determined location to the second entity (D100) in regular intervals or whenever the location of the storage (S120) and/or the lock system (S110) changes,
 - communicating a notification to the first entity (C100) for requesting an unlocking of the lock system (S110) for the second entity (D100),
 - sending a message via a mobile telecommunication system from the first entity (C100) to the lock system (S110) for unlocking the lock system (S110),
 - unlocking the lock system (S110) based on the received message,
 - opening the storage (S120), and
 - transferring the good from the opened storage (S120) to the second entity (D100).
4. The method according to claim 3, further comprising the step of communicating a delivery address related to the storage (S120) or the lock system (S110) to the second entity (D100) during the traveling.
5. The method according to any of the preceding claims, further comprising the step of obtaining by the second entity (D100) information for notifying the first entity (C100) from the storage (S120) or the lock system (S110).
6. The method according to any of the preceding claims, further comprising the step of authenticating at least one of the first entity (C100), the second entity (D100), and the lock system (S110) for the unlocking.
7. The method according to any of the preceding claims, further comprising the step of verifying an authorization of at least one of the first and the second entity (D100) by the lock system (S110) for the unlocking.

8. The method according to any of the preceding claims, further comprising the step of verifying restriction information for the unlocking.
- 5 9. The method according to any of the preceding claims, further comprising the step of supervising one or more steps of the method for delivery.
10. The method according to any of the preceding claims, wherein the storage (S120) is an interior of a vehicle.
- 10 11. The method according to any of the claims 1 to 10, wherein the storage (S120) is the trunk of a car.
12. The method according to any of the preceding claims, further comprising the step of remotely locking the lock system (S110).
- 15 13. Method for remotely controlling a lock system (S110), the method comprising the steps of
- determining the location of the lock system (S110),
 - 20 - communicating the determined location to a second entity (D100) in regular intervals or whenever the location of the lock system (S110) changes,
 - communicating a notification to a first entity (C100) for requesting an operation of the lock system (S110) for the
 - 25 second entity (D100),
 - receiving at the lock system (S110) a message for operating a lock (L) of the lock system (S110), the message being received from the first entity (C100) via a mobile communication system,
 - generating by the lock system (S110) a signal for operating the
 - 30 lock (L) according to the message, and
 - communicating the signal to the lock (L) and operating the lock (L) according to the signal.

14. The method according to claim 13, further comprising the step of authenticating the first entity (C100) and/or verifying an authorization of the first entity (C100) by the lock system (S110) for operating the lock (L).
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15. The method according to claim 13 or 14, wherein the message is proxied via the second entity (D100), the method further comprising the step of authenticating the second entity (D100) and/or verifying an authorization of the second entity (D100) by the lock system (S110) for operating the lock (L).
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16. The method according to any of the claims 13 to 15, further comprising the step of verifying restriction information by the lock system (S110) for operating the lock (L).
- 15
17. The method according to any of the claims 13 to 16, further comprising the steps of
- receiving by the lock system (S110) from a detector a detector signal indicating information about the lock (L) and/or about an environment of the lock (L),
 - generating by the lock system (S110) a further message based on the received detector signal for indicating said information to the first entity (C100), and
 - communicating the further message to the first entity (C100).
- 20
- 25
18. Remotely controllable lock system (S110) comprising a receiving unit (RU), a transmission unit (TU), a processing unit (PU), and a lock (L), means to determine the location of the lock system (S110), means to communicate the determined location to a second entity (D100) in regular intervals or whenever the location of the lock system (S110) changes, means to communicate a notification to a first entity (C100) for requesting an operation of the lock system (S110) for the second entity
- 30

(D100), the receiving unit (RU) is adapted to receive via a mobile telecommunication system a message for operating the lock (L) from the first entity (C100), the processing unit (PU) is adapted to process the message for generating a signal for operating the lock (L) according to the message, the transmission unit (TU) is adapted to communicate the signal to the lock (L) and the lock (L) is adapted to be operated according to the signal.

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19. The lock system according to claim 18, wherein the processing unit (PU) is adapted to generate the signal for operating the lock (L) based on a key.

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20. The lock system according to claim 18 or 19, wherein the processing unit (PU) is adapted to authenticate the first entity (C100) and/or to verify an authorization of the first entity (C100) for the operation.

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21. The lock system according to any of the claims 18 to 20, wherein the processing unit (PU) is adapted to verify restriction information for the operation.

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22. The lock system according to claim 18 to 21, wherein the lock system (S110) comprises a detector for a supervision of the lock (L) or an environment of the lock (L).

23. The lock system according to any of the claims 18 to 22, wherein the lock (L) is a lock of a vehicle.

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24. The lock system according to any of the claims 18 to 23, wherein the lock system (S110) is portable.

25. The lock system according to any of the claims 18 to 24, wherein the receiving unit (RU), the processing unit (PU), and the transmission unit (TU) are part of a communication device with mobile phone functionality.
- 5 26. A computer program loadable into a processing unit (PU) of a lock system (S110), the computer program comprising code adapted to execute steps of the method according to any of the claims 13 to 17.

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

in relation to this international application

Telefonaktiebolaget LM Ericsson (publ) is entitled to apply for and be granted a patent by virtue of the following:

An assignment from

STÜMPERT, Martin
Hundsbrunnertalstr. 22
67691 Hochspeyer
Germany

EWERT, Joerg Christian
Karl-Platz-Str. 22d
41812 Erkelenz
Germany

to Telefonaktiebolaget LM Ericsson (publ)

dated June 30, 2003

this declaration is made for the purposes of:

all designations except the designation of the United States

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".